

Title (en)

METHOD AND DEVICE FOR ENTROPY TRANSFER WITH A THERMODYNAMIC CYCLIC PROCESS

Title (de)

VORRICHTUNG UND VERFAHREN ZUM TRANSFER VON ENTROPIE MIT THERMODYNAMISCHEM KREISPROZESS

Title (fr)

DISPOSITIF ET PROCEDE POUR LE TRANSFERT D'ENTROPIE AVEC CYCLE THERMODYNAMIQUE

Publication

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Application

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Abstract (en)

[origin: WO9917011A1] The invention relates to a method and device for entropy transfer, whereby a periodic cyclic process is created inside a pressurized container by periodically exchanging working substance(s) using valves at different pressures and by periodically modifying partial volumes defined by regenerators with or without the use of a compression device. The transformation of mechanical energy by exchanging a working substance at different pressures makes it easier to integrate other partial systems and to substantially modify the temperature of at least one working substance flow by coupling a thermodynamic cyclic process to heat energy transport, heat energy storage or the construction of a simple effective solar collector system wherein optical concentration, translucent insulation and translucent insulation cross-flow are combined in an effective manner. The invention can be used for solar energy or heat sources or to supply local pumping capacity requirements and provide mechanical actuation, electrical energy, heat, cold, cleaning or separation and chemical or physical modification of at least one substance.

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